



KRAMER ELECTRONICS LTD.

USER MANUAL

MODEL:

MODULAR UTBUS-1
Under the Table Connection
Bus

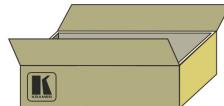
P/N: 2900-300076 Rev 1

UTBUS-1 Quick Start Guide

This page guides you through a basic installation and first-time use of your **UTBUS-1**. For more detailed information, see the **UTBUS-1** user manual. You can download the latest manual at <http://www.kramerelectronics.com>.

Step 1: Check what's in the box

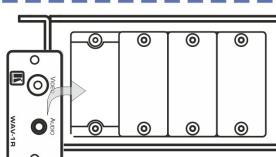
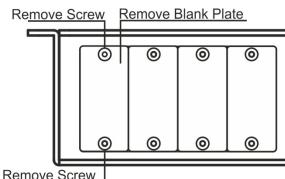
- UTBUS-1** Under the Table Connection Bus
- 1 Quick start guide
- 4 mounting wood screws
- 1 User Manual
- 6 self locking ties



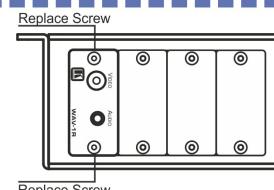
Save the original box and packaging materials in case your Kramer product needs to be returned to the factory for service.

Step 2: Connect the wall plate items

Unscrew the two screws that attach the blank plate to the connecting surface and remove the blank plate (save the two screws).



Place the required wall plate insert item into the opening.

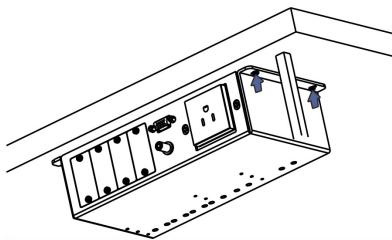


Reinsert the two screws to affix the wall plate insert in position, and tighten them.

Step 3: Install the cables

Connect the cables to the inside of the **UTBUS-1** and secure them with the self-locking ties.

Step 4: Install the UTBUS-1 to the table



Mark the correct location and insert the four M4.2X16 wood screws into the four rim screw holes and fix the UTBUS-1 to the table.

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1 Introduction

Welcome to Kramer Electronics! Since 1981, Kramer Electronics has been providing a world of unique, creative, and affordable solutions to the vast range of problems that confront the video, audio, presentation, and broadcasting professional on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better!

Our 1,000-plus different models now appear in 11 groups that are clearly defined by function: GROUP 1: Distribution Amplifiers, GROUP 2: Switchers and Matrix Switchers, GROUP 3: Control Systems, GROUP 4: Format/Standards Converters, GROUP 5: Range Extenders and Repeaters, GROUP 6: Specialty AV Products, GROUP 7: Scan Converters and Scalers, GROUP 8: Cables and Connectors, GROUP 9: Room Connectivity, GROUP 10: Accessories and Rack Adapters and GROUP 11: Sierra Products.

Thank you for purchasing the Kramer **UTBUS-1**, which is ideal for boardrooms, conference and training rooms!

2 Getting Started

We recommend that you:

- Unpack the equipment carefully and save the original box and packaging materials for possible future shipment
- Review the contents of this user manual
- Use Kramer high-performance high-resolution cables



Go to <http://www.kramerelectronics.com> to check for up-to-date user manuals, a complete list of Kramer wall plates and module connectors, application programs, and to check if firmware upgrades are available (where appropriate).

2.1 Achieving the Best Performance

To achieve the best performance:

- Use only good quality connection cables to avoid interference, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low quality cables)
- Avoid interference from neighboring electrical appliances that may adversely influence signal quality
- Position your Kramer **UTBUS-1** away from moisture, excessive sunlight and dust

2.2 Glossary

Legrand® socket	For use with Legrand's white Mosaic™ series only
Universal socket	The Universal socket fits almost all power cords, worldwide
Insert	The insert is fitted in the inner frame. Go to our Web site to check for a variety of single and dual sized inserts

3 Overview

The **UTBUS-1** is a furniture-mounted connection bus that is easily installed underneath a wooden table or podium top. The unit is sturdy, cost-effective, and easy to install.

In addition, the **UTBUS-1**:

- Includes two permanent components suitable for connecting a PC: one 15-pin HD connector and one stereo audio 3.5mm mini jack
- Is modular in design, letting you install up to four wall plate inserts, according to your requirements
- Power socket openings that are suitable for any of the following power sockets: for the USA, Germany (the Europlug), Belgium-France, Italy, Australia, “Universal” for use anywhere (see compatibility restrictions in [Section 6](#)), or Legrand type power sockets (for use with Legrand’s white Mosaic™ series only)
Order the power sockets separately from Kramer Electronics
- Lets you install a Kramer TOOL or Pico TOOL inside the body of the **UTBUS-1**

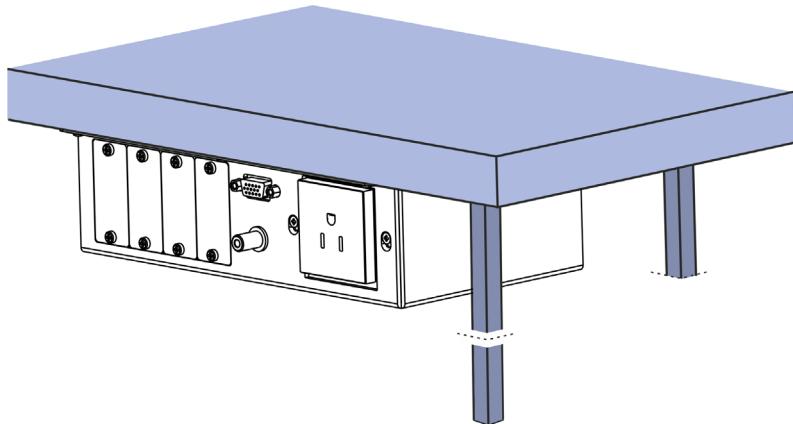


Figure 1: UTBUS-1 under a Table

4 Your UTBUS-1 Enclosure

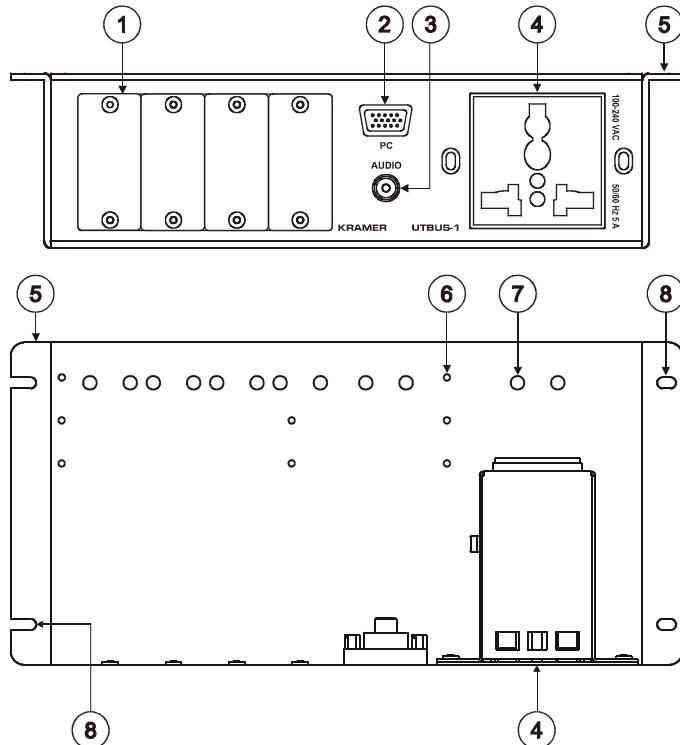


Figure 2: UTBUS-1 Under the Table Connection Bus

#	Feature	Function
1	Blank Plates	Four blank covers that can be replaced with wall plate inserts as required (see Section 5.1)
2	Computer Graphics 15-pin HD (female / female) Connector	For pass-through computer graphics signals
3	3.5mm stereo Audio (Female / Female) Connector	For pass-through audio signals
4	Universal Power Socket	Suitable for international power requirements (available with other types of power sockets)
5	Outer Rim	For mounting under the table
6	TOOL Mounting Holes (8)	Screw in the appropriate holes to install a Kramer TOOL or Pico TOOL
7	Tie Holes (12)	Insert the self-locking tie through the holes to fix the pass-through cables to the inside walls of the UTBUS-1
8	Rim Screw Holes (4)	For fixing the UTBUS-1 under the table (including two open screw holes)

4.1 Power Socket Options

A choice of one or more power sockets per inner frame is available in several versions, including power sockets for the USA, Germany (the Europlug), Belgium-France, Italy, and Australia. A “Universal” socket for general use is also available (see the compatibility restrictions in the table below), as well as Legrand® manufactured sockets (the Mosaic™ series only, which comes in white) that are suitable for various countries.

Single Power Socket Assemblies:	Power Specs
Universal: 	TBUS/PS/UNIV (80-000899) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
Fully compatible with power plugs in the UK, India, Italy and Denmark, as well as with the 2-prong Europlug. Partially compatible (if the polarity is reversed) with plugs in China, Switzerland, Israel and the USA. The universal socket does not supply grounding to plugs in Central Europe and France (you should order country specific sockets instead). Not compatible with South African plugs.	
USA: 	TBUS/PS/US (80-000999) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
Germany and EU: 	TBUS/PS/DE (80-001299) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
Belgium and France: 	TBUS/PS/FR (80-001399) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
Italy: 	TBUS/PS/ITALY (80-001499) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet

Single Power Socket Assemblies:	Power Specs
Australia: 	TBUS/PS/AUS (80-001599) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
Legrand manufactured sockets for various countries: 	TBUS/PS/LEGRAND (80-001799) For example, the Legrand assembly with a UK power socket 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet

4.2 Power Cord Options

You can order any of the following power cords to use with the **UTBUS-1**:

Power Cord Type	Description	P/N
110V (North America)	AC-POWER-CORD-6ft/110V	91-000099
125V (Japan)	POWER-CORD-JAPAN-6ft/125V	91-000699
220V (Europe) Right Angle	AC-POWER-CORD-RA/6ft/220V	91-000199
220V (Israel)	AC-POWER-CORD-ISRAEL-6ft/220V	91-000999
250V (UK)	AC-POWER-CORD-6ft(UK)/250V	91-000299
250V (India) Right Angle	AC-POWER-CORD-INDIA-R/A-6ft/250V	91-001099
250V/10A (China) Right Angle	AC-POWER-CORD-CHINA-R/A10A-6ft/250V	91-001199
250V/10A (South Africa)	AC-POWER-CORD-SAA-10A-6ft/250V	91-001299

5 Installing the UTBUS-1

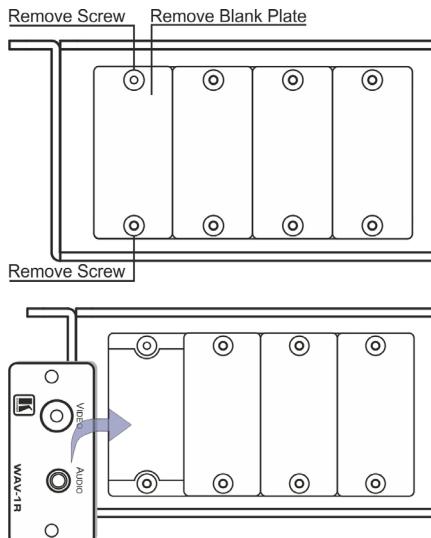
This section describes how to:

- Install the required wall plate insert items, see [Section 5.1](#)
- Install the cables, see [Section 5.2](#)
- Connect the Kramer TOOL or Pico TOOL (optional), see [Section 5.3](#)
- Secure the unit under the table, see [Section 5.4](#)

5.1 Installing the Required Wall Plate Inserts

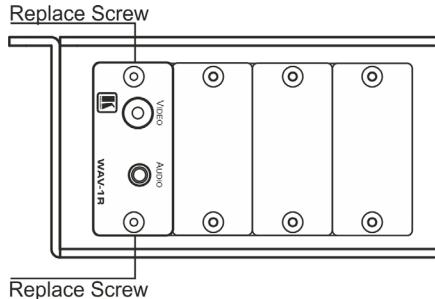
By default, the mounting surface includes a power socket opening and four blank plates for optional video, audio and network connectors. Each blank plate can be removed and replaced with a Kramer passive wall plate insert or connector module for interfacing A/V type signals, if required. To install a wall plate insert or connector module, do the following:

1. Unscrew the two screws that attach the blank plate to the connecting surface and remove the blank plate (save the two screws).



2. Place the required wall plate insert item over the opening.

3. Reinsert the two screws to affix the wall plate insert in position, and tighten them.



5.2 Installing the Cables

To install the cables, do the following:

1. Connect the cables to the inside of the unit.
2. Insert the self-locking ties through the tie holes to secure the cables to the inside walls of the enclosure.

5.3 Connect the Kramer TOOL or Pico TOOL (Optional)

You can install a Kramer TOOL or Pico TOOL, as illustrated in the example in [Figure 3](#).

To connect the Kramer TOOL to the **UTBUS-1**:

1. Connect the mounting brackets to the Kramer TOOL, as described in the Bracket Installation Kit Instructions.
2. Insert the four 4x3/8" screws into the four TOOL mounting holes and fasten the Kramer TOOL to the inside floor of the **UTBUS-1**.

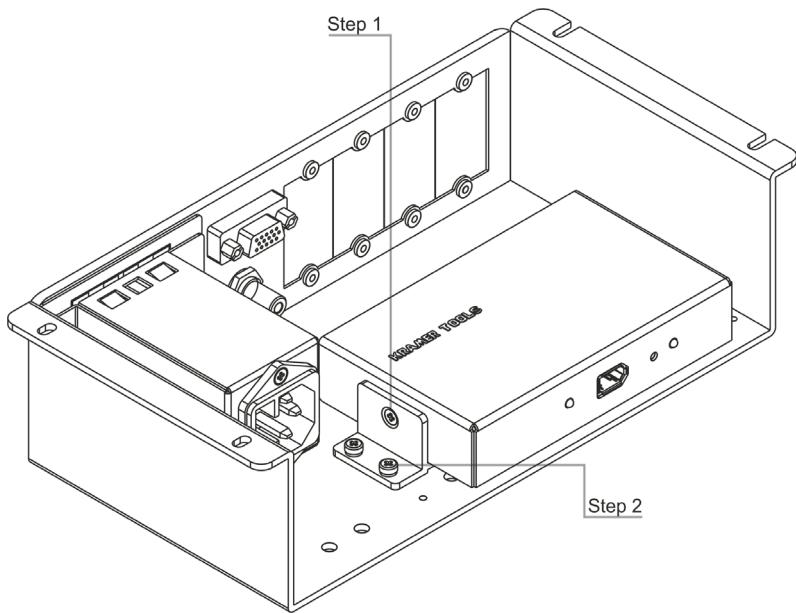


Figure 3: Installing a Kramer TOOL

5.4 Securing the UTBUS-1 Enclosure to the Table

To install the **UTBUS-1** underneath the table, as illustrated in [Figure 4](#), do the following:

1. Place the unit to the underside of the table and mark the correct location.
2. Insert the four M4.2X16 wood screws into the four rim screw holes and fix the **UTBUS-1** to the table.

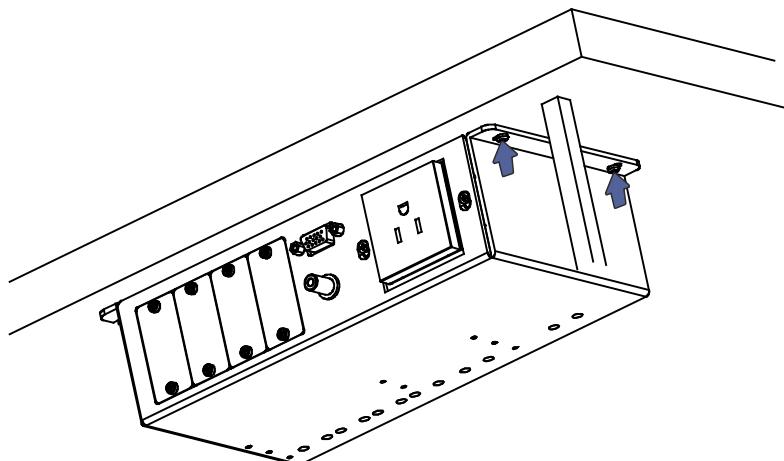


Figure 4: Securing the UTBUS-1 to the Underneath of the Table

The **UTBUS-1** is ready for use.

6 Technical Specifications of the Assembled UTBUS-1

POWER SOURCE (AC power limits):	Power Socket Assemblies	
	Universal	100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
	Fully compatible with power plugs in the UK, India, Italy and Denmark, as well as with the 2-prong Europlug.	
	Partially compatible (if the polarity is reversed) with plugs in China, Switzerland, Israel and the USA. The universal socket does not supply grounding to plugs in Central Europe and France (you should order country specific sockets instead).	
	Not compatible with South African plugs.	
	USA	100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
	Germany and EU	100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
	Belgium and France	100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
	South Africa	100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
	Australia	100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
Legrand manufactured sockets for various countries (Mosaic Series)		100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
FUSE RATING:	T 6.3A 250V	
OPERATING TEMPERATURE RANGE:	+5 to +45 Deg. Centigrade	
OPERATING HUMIDITY RANGE:	10 to 90% RHL, non-condensing	
STORAGE TEMPERATURE RANGE:	-20 to +70Deg. C.	
STORAGE HUMIDITY RANGE:	5 to 95% RHL, non-condensing	
DIMENSIONS:	250.2mm x 137.5mm x 65mm (9.85" x 5.41" x 2.56") W, D, H	
WEIGHT:	0.4kg (0.88lbs) approx.	
ACCESSORIES:	Power cord, self locking ties, wood screws	
OPTIONS:	Passive wall plates and interfaces, power socket kits, power cord	
Specifications are subject to change without notice at http://www.kramerelectronics.com		

LIMITED WARRANTY

We warrant this product free from defects in material and workmanship under the following terms.

HOW LONG IS THE WARRANTY

Labor and parts are warranted for seven years from the date of the first customer purchase.

WHO IS PROTECTED?

Only the first purchase customer may enforce this warranty.

WHAT IS COVERED AND WHAT IS NOT COVERED

Except as below, this warranty covers all defects in material or workmanship in this product. The following are not covered by the warranty:

1. Any product which is not distributed by us or which is not purchased from an authorized Kramer dealer. If you are uncertain as to whether a dealer is authorized, please contact Kramer at one of the agents listed in the Web site www.kramerelectronics.com.
2. Any product, on which the serial number has been defaced, modified or removed, or on which the WARRANTY VOID IF TAMPERED sticker has been torn, reattached, removed or otherwise interfered with.
3. Damage, deterioration or malfunction resulting from:
 - i) Accident, misuse, abuse, neglect, fire, water, lightning or other acts of nature
 - ii) Product modification, or failure to follow instructions supplied with the product
 - iii) Repair or attempted repair by anyone not authorized by Kramer
 - iv) Any shipment of the product (claims must be presented to the carrier)
 - v) Removal or installation of the product
 - vi) Any other cause, which does not relate to a product defect
 - vii) Cartons, equipment enclosures, cables or accessories used in conjunction with the product

WHAT WE WILL PAY FOR AND WHAT WE WILL NOT PAY FOR

We will pay labor and material expenses for covered items. We will not pay for the following:

1. Removal or installations charges.
2. Costs of initial technical adjustments (set-up), including adjustment of user controls or programming. These costs are the responsibility of the Kramer dealer from whom the product was purchased.
3. Shipping charges.

HOW YOU CAN GET WARRANTY SERVICE

1. To obtain service on your product, you must take or ship it prepaid to any authorized Kramer service center.
2. Whenever warranty service is required, the original dated invoice (or a copy) must be presented as proof of warranty coverage, and should be included in any shipment of the product. Please also include in any mailing a contact name, company, address, and a description of the problem(s).
3. For the name of the nearest Kramer authorized service center, consult your authorized dealer.

LIMITATION OF IMPLIED WARRANTIES

All implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to the length of this warranty.

EXCLUSION OF DAMAGES

The liability of Kramer for any effective products is limited to the repair or replacement of the product at our option. Kramer shall not be liable for:

1. Damage to other property caused by defects in this product, damages based upon inconvenience, loss of use of the product, loss of time, commercial loss; or;
2. Any other damages, whether incidental, consequential or otherwise. Some countries may not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from place to place.

NOTE: All products returned to Kramer for service must have prior approval. This may be obtained from your dealer.

This equipment has been tested to determine compliance with the requirements of:

EN-50081: "Electromagnetic compatibility (EMC); generic emission standard.

Part 1: Residential, commercial and light industry"

EN-50082: "Electromagnetic compatibility (EMC) generic immunity standard.

Part 1: Residential, commercial and light industry environment".

CFR-47: FCC* Rules and Regulations:

Part 15: "Radio frequency devices

Subpart B Unintentional radiators"

CAUTION!

► Servicing the machines can only be done by an authorized Kramer technician. Any user who makes changes or modifications to the unit without the expressed approval of the manufacturer will void user authority to operate the equipment.

► Use the supplied DC power supply to feed power to the machine.

► Please use recommended interconnection cables to connect the machine to other components.

* FCC and CE approved using STP cable (for twisted pair products)



For the latest information on our products and a list of Kramer distributors, visit our Web site where updates to this user manual may be found.

We welcome your questions, comments, and feedback.

Web site: www.kramerelectronics.com

E-mail: info@kramerelectronics.com

CE



SAFETY WARNING

Disconnect the unit from the power supply before opening and servicing